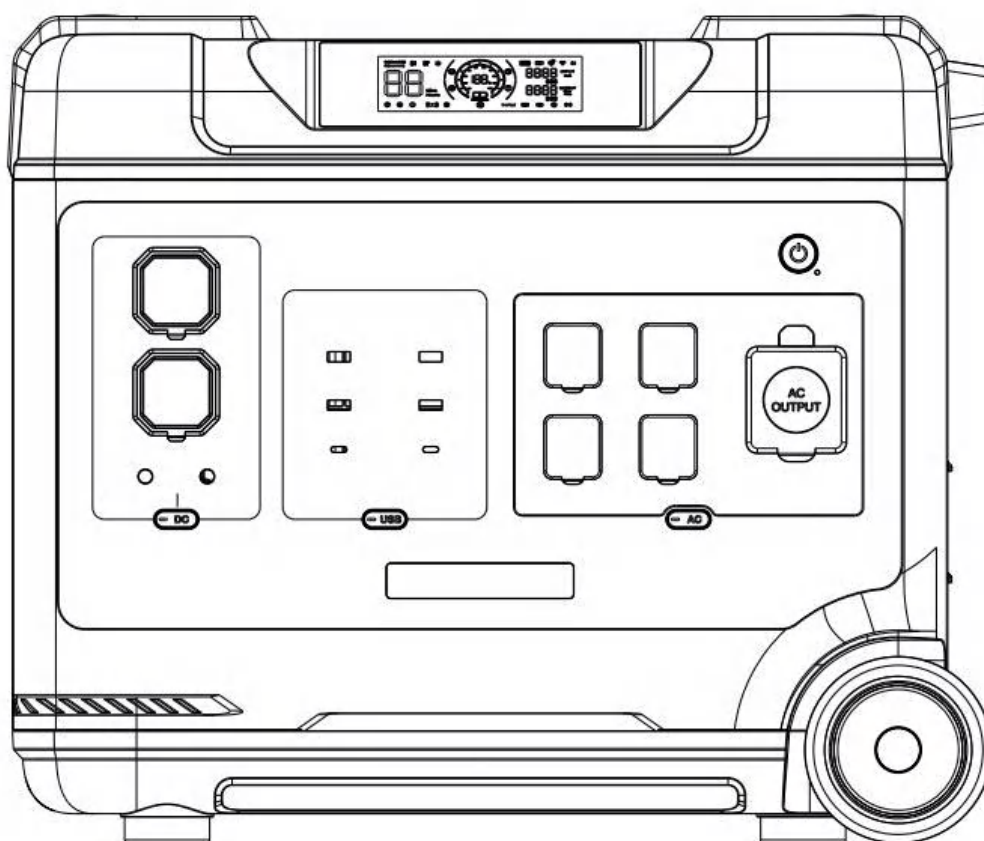


Outdoor Generator

User Manual

PORTABLE POWER STATION



We deeply appreciate you for purchasing the P5000PLUS Portable Energy Storage Power Supply. Be sure to read this book carefully before using the product to ensure you use it correctly. The book is required for product reimbursement. Consequently, it is advisable to keep it, alongside the invoice and other purchase certificates.

To guarantee the safety of this product during transportation, it is only about 30% charged when it is packed. As such, you are required to charge it immediately after opening and before use.

Please avoid the use of extension cords or cable taps, as this product can be charged directly from wall sockets etc. When using two or more sockets for charging, please avoid using any other products on the same socket.

P5000PLUS(US)V1.0

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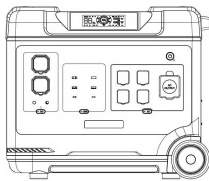
Disclaimers

Before using the product, please read the user manual carefully to ensure that you fully understand it before use. After reading, please keep the user's manual in a safe place for future reference. If you use this product incorrectly, you may cause serious injury to yourself or others, as well as product damage and property damage.

Once you use this product, you can be deemed to have understood, recognized and accepted all the terms of this manual. Users undertake responsibility for their own actions and all the consequences that may arise therefrom.

Our company does not assume any responsibility for any loss caused by users' failure to use the product in accordance with the User Guide. In order to comply with laws and regulations, the company has the final interpretation of this document and all related documents of this product.

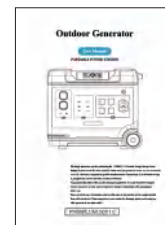
Packing List



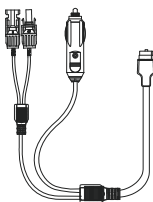
Portable Energy Storage
Power Supply



AC power cord



User Guide



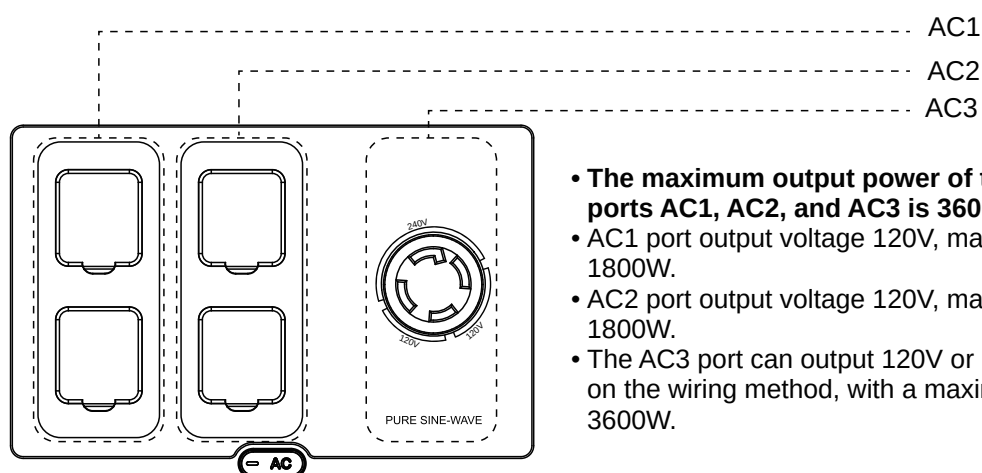
MC4&Car Charger-XT60 Cable

Precautions for use

1. Please avoid high temperature and humidity. Please avoid using the product in direct sunlight and or near a fire.
2. Please be sure not to disassemble or modify the product, as it may cause malfunction or even a fire.
3. Please dispose off or recycle the product in accordance with the methods stipulated by local laws.
4. Be careful not to drop the product from a high place or expose it to any form of strong impact.
5. Please store or use the product out of the reach of children.
6. Please use the company's genuine products for the accessories. Customers who use non-genuine products and suffer adverse consequences as a result, cannot enjoy free maintenance.
7. When using this product, please do not interfere with the cooling of the product, please empty the ventilation space of more than 30CM from the side suction and exhaust port.
8. When the product is not in use, please put the body power off and unplug the power cord. Please avoid storing the product in a place with high temperature, high humidity and direct sunlight.
9. If you need to store the product for a long period of time, please make sure to deplete the charge once every 3 months, and then recharge it to about 50%.
10. If there is any doubt that the product body, the auxiliary line and the connecting equipment are defective, please do not continue to use the product. Instead, contact the after-sales personnel to solve the problem in time.
11. Please do not store the product for a long time in the car or field warehouse or other places that may experience extreme high and low temperature, to prevent the battery life from shortening amongst other failures.
12. Medical Equipment Limit: The product is not intended for powering life-sustaining medical equipment, including but not limited to medical-grade ventilators (hospital-grade CPAP: Continuous Positive Airway Pressure) or artificial lungs (ECMO: Extracorporeal Membrane Oxygenation). If you plan to use it for other medical equipment, consult with the equipment's manufacturer first to ensure there are no restrictions on using an external power source with their equipment.
13. Medical Equipment Interference: When in use, power supply products will generate electromagnetic fields, which are likely to affect the normal operation of medical implants or personal medical equipment such as pacemakers, cochlear implants, hearing aids, defibrillators, etc. If these types of medical equipment are being used, please contact the manufacturer to inquire about any restrictions on the use of such equipment. These measures are fundamental to ensure a safe distance between the medical implants (for example, pacemakers, cochlear implants, hearing aids, defibrillators, etc.) and this product while in use.

Specifications

 Capacity	 Cycle life	 Weight	 Size	 RV(Aviation Port)
LiFePo4 51.2V	≥5000	53KG	L550*W299*H487mm	12V/10A
 USB-A*2	 USB-A*2	 TYPE-C*2	 Output*2	 Cigar Lighter*1
5V/2.4A	QC3.0-18W	PD-100W	12V/3A	12V/10A
 AC			 AC Input	 PV/DC Input
AC1:120V 1800W (Max)	AC2:120V 1800W (Max)	AC3:120/240V 3600W (Max)	120V/1800W 240V/3200W	12-60V/18A(MAX)



- The maximum output power of the combination of ports AC1, AC2, and AC3 is 3600W.
- AC1 port output voltage 120V, maximum output power 1800W.
- AC2 port output voltage 120V, maximum output power 1800W.
- The AC3 port can output 120V or 240V voltage depending on the wiring method, with a maximum output power of 3600W.

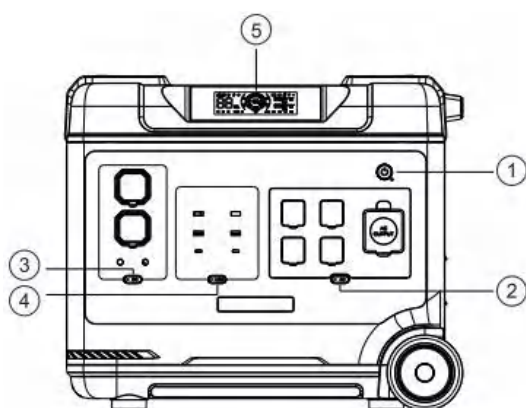
Product Description

This product is a portable energy storage power supply, suitable for home emergency power backup, outdoor travel, and emergency disasters that require power. In addition, it can also be used for outdoor work, amongst other applications.

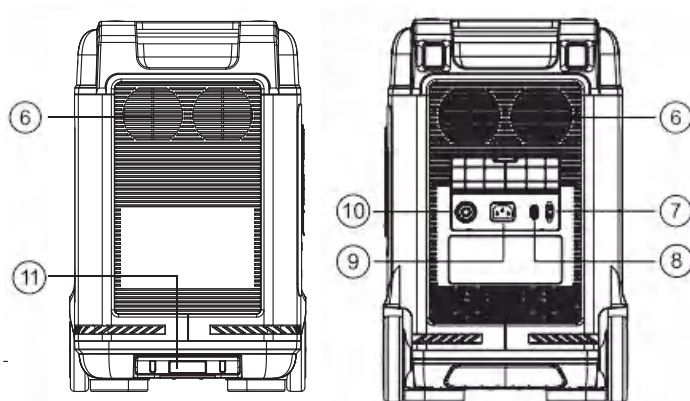
This product has built-in lithium iron phosphate battery, which supports AC fast charging, vehicle charging, and solar photovoltaic panel charging. (This product has UPS function, and when the utility power fails, it can be switched on within 10ms for this product to supply power to electric equipment.)

The AC output of this product is pure sine wave waveform, and can manually be converted from 50HZ to 60HZ to provide better protection for electrical appliances.

This product comes with a telescopic dragging trolley bar, convenient for you to carry this product easily in.



- ① Power switch
- ② AC switch
- ③ DC switch
- ④ USB switch
- ⑤ LCD screen



- ⑥ Air inlet/outlet
- ⑦ PV/DC input port
- ⑧ AC fast/slow charging switch
- ⑨ AC input port
- ⑩ Overload protector
- ⑪ Trolley extension/retraction button

① Power switch

How to use: Press and hold the power button for 3S to revive the system, turn on the LCD display, and press and hold it again for 3S to turn off the power system.

② AC switch

AC switch (AC output port *5, the total electrical power load should be less than 3600W)

1. AC output voltage and frequency standards vary in different countries. Please check the AC voltage and frequency of the equipment before use.
2. Long press the AC button + USB button for 3 seconds to achieve frequency switching.
3. By pressing the AC button 10 times in a row, the AC output voltage can be switched in 100/110/120V

③ DC switch

Use: Short press the DC button to open the DC output port in the power-on state, and short press it again to close it.

		
Output*2	Cigar Lighter*1	RV(Aviation Port)

④USB switch

Usage: Short press the USB button to open the USB output port in the power-on state, and short press again to close it.

		
USB-A*2	USB-A*2	TYPE-C*2
5V/2.4A	QC3.0-18W	PD-100W

⑤LCD switch

Display the power and usage status of the product.

⑥Cooling air inlet/outlet

The cooling fan will run automatically when the product reaches a certain temperature during use. Please avoid blocking the cooling air inlet/outlet and do not place objects within 30cm of the cooling air inlet/outlet during the use of the product.

⑦PV/DC input port

The product can be charged by connecting the solar panel with the standard PV/DC port charging cable.

- 1.The input of the solar panel can be up to 1000W, with the maximum voltage being 60V.
2. If the PV/DC input port is charged with a voltage higher than 60V, the product will be damaged. A failure that is not covered by the warranty.

⑧AC fast/slow charging switching switch

Toggle this switch to the corresponding gear, after which you will realize whether the AC port is on fast charging or slow charging mode.

When using the AC fast charging gear, you need to ensure that the output voltage of the power supply device meets 100-120V,200-240V.

When the output voltage of the charging equipment is 100-120V,the maximum charging power is 1800W
200-240V,the maximum charging power is 3000W.

⑨ AC charging port

After connecting the utility power to the AC charging port using the standard AC charging cable, you can charge this product.

Please ensure that the AC voltage and frequency of the device are consistent with the utility power before using the AC port for charging.

⑩ Overload protection button

In case of unstable power voltage supply due to lightning or other reasons, or if there is a large voltage input at the AC terminal, the overload protection function (safety circuit breaker) will be activated to protect this product and disconnect the AC input port from external devices.

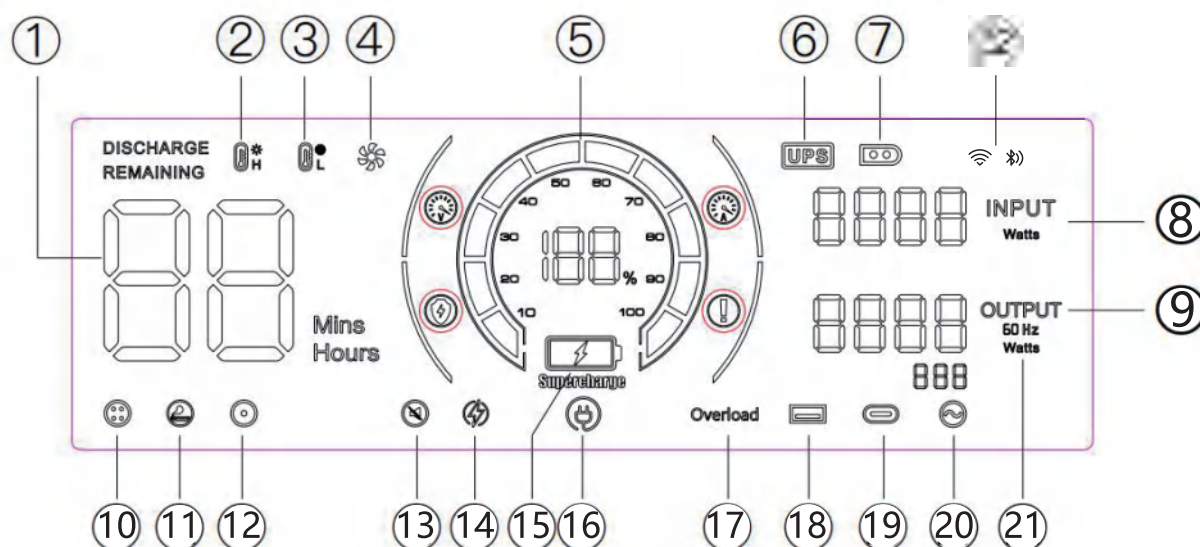
Please restore the AC input function of this product in the following order.

1. Turn off the power button and unplug all ports.
2. After confirming that there is no abnormality in each part, turn on the power button.
3. Press the overload protection button and turn on the AC cable to resume AC input.

⑪ Pull rod extension/retraction button

Pressing this button enables the extension/shortening function of the pull rod.

Introduction to Display Interface



- | | | |
|----------------------------|----------------------------------|------------------------------|
| ① Using time/charging time | ② High temperature protection | ③ Low temperature protection |
| ④ Fan status | ⑤ Power status | ⑥ Backup power mode |
| ⑦ PV charging mode | ⑧ Total input power | ⑨ Total output power |
| ⑩ RV (Aviation Port) | ⑪ Cigarette lighter (12V) output | ⑫ DC (12V) output |
| ⑬ Silent mode | ⑭ Constant power mode | ⑮ Fast charging mode |
| ⑯ Slow charging mode | ⑰ Overload protection | ⑱ USB output |
| ⑲ PD output | ⑳ AC output | ㉑ Frequency Switching |
| WIFI/Bluetooth | | |

Note on screen display



When this icon is on, please ensure that the air inlet on both sides of the product is not blocked.



When the indicator icon flashes, it means that the internal temperature of the machine is too high or too low, at which time the device opens the intelligent protection program, forcing the machine to stop working normally. (Wait for the machine to return to normal temperature, then you can start working again)



When the indicator icon is flashing, it means the utility input is abnormal, please check the charging end connection.



When this icon is flashing, it means the corresponding port output is abnormal, please check the load situation.

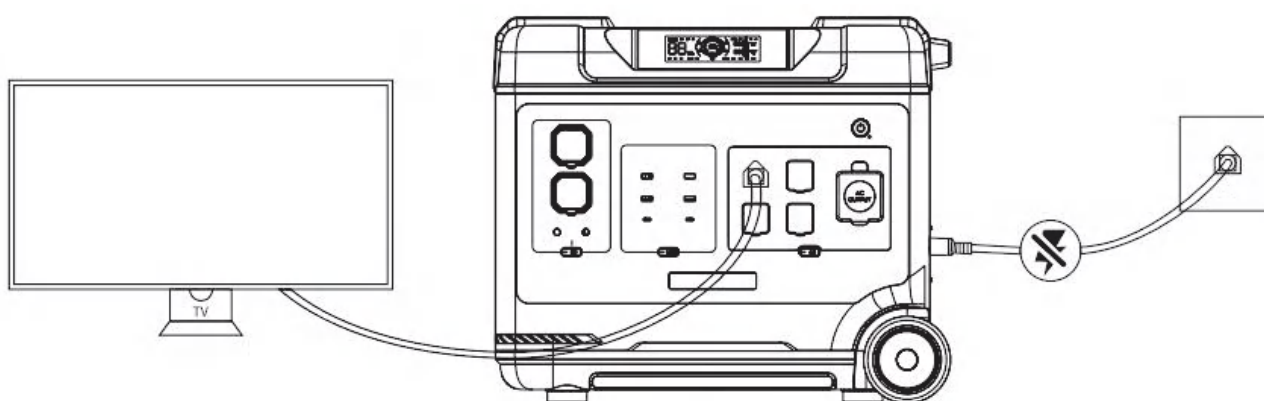
Backup Power Mode

The product has a bypass mode that can complete the output directly from AC power without the need to pass through the battery.

In backup power mode, when the city's AC input is suddenly interrupted, the product can automatically switch to battery power within 10ms, guaranteeing the normal operation of AC equipment..

Backup power mode connection diagram

As shown in the figure below, the product is connected between the socket and the electrical appliances, and the product's power is ON.



Once you turn on the electrical device, it makes use of grid AC power directly.

When the utility power is cut off while in this state, it will automatically switch to the product's internal battery power.

※ When using backup power mode in the electricity supply of the United States or Japan, when the AC input voltage to the product is 100-120V (only the two 120V sockets of AC1 can use backup power mode at this time), the output voltage of backup power mode is also 100-120V, and the maximum output power is 1400W. If the power exceeds 1400W, the UPS icon will flash, indicating overload, and the output will be interrupted. When the voltage of AC power input to the product is 200-240V (at this time, only the 240V socket of AC3 can use backup power mode) the output voltage of backup power mode also corresponds to 200-240V and the maximum output power is 2800W. If the load power exceeds 2800W, the UPS icon will flash, indicating overload, and the output will be interrupted.

※ With the Chinese standard, British standard, European Standard, Korean standard In backup power mode, the maximum current of AC output is 15A, and when the AC output exceeds 15A, the UPS icon flashes Indicates overload while the AC icon turns off output interrupt.

Solar panel connection solution

This product can both be connected to, and charged by the solar panel .

With a solar panel power of 1000W, and at least 5.2 hours, full charge can be achieved. (Solar panel charging maximum 1000W, maximum input voltage 60V)

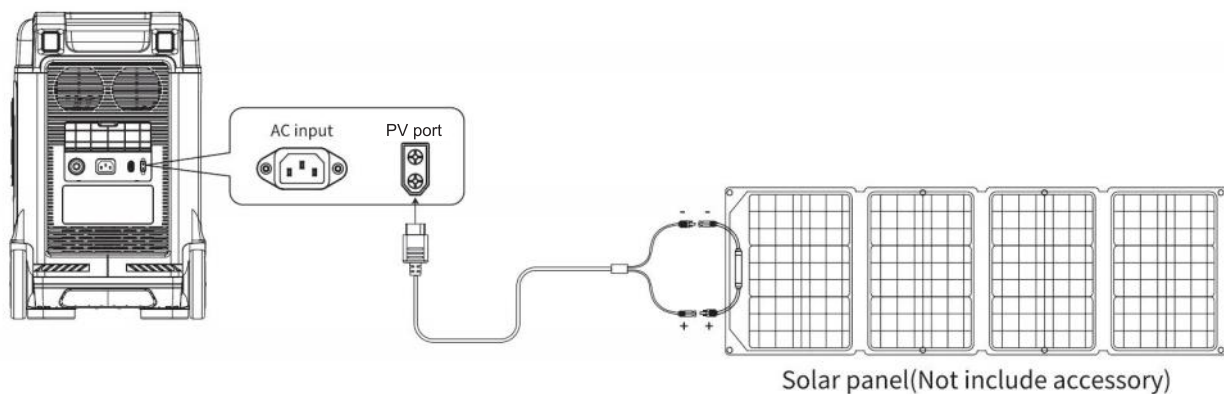
※Solar panel charging power, with factors like the weather, climate and other conditions affecting the decision.

※Solar panel voltage over 60V will damage the device and may be out of warranty.

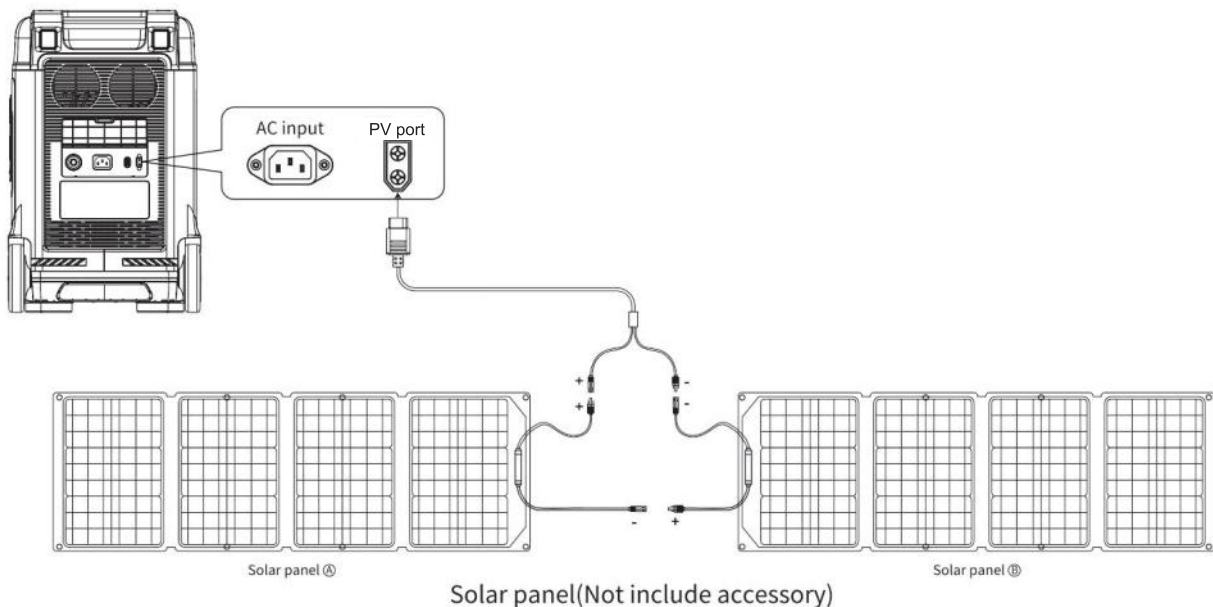
Solar panel connection scheme

-Solar charging

Option 1



Option 2



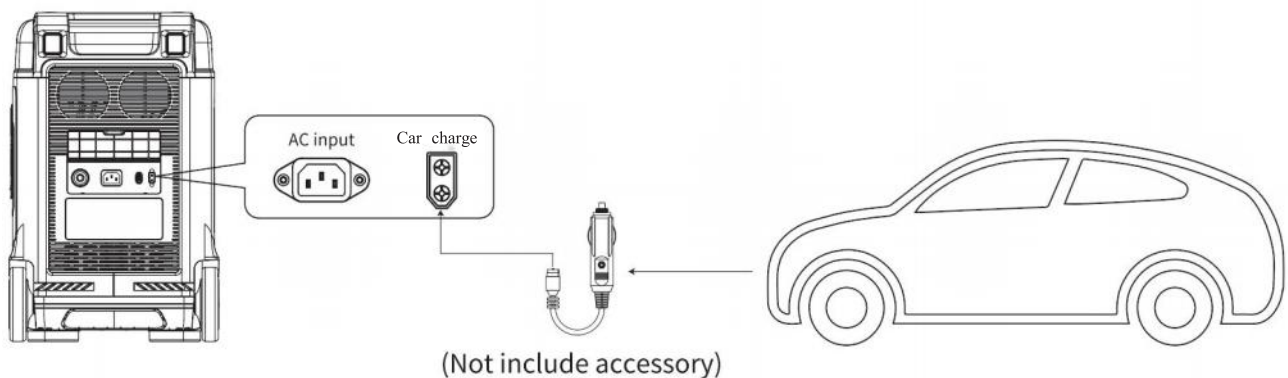
Onboard charging

This product can be charged by the cigarette lighter (accessory: hereinafter referred to as ACC) in the car by using the ACC charging cable for mobile charging.

Turn the power of the product ON, connect the ACC charging cable to the cigarette lighter in the car and the Anderson connector on the side of the product, turn on the car engine, and the LED of the product will show the input power. The LED of this product will show the input power.

※Onboard charging ought to be done when the car engine is started. Failure to start the engine may cause the car's battery to run out of power.

※Onboard charging is usually low power of 90-240W and the charging time is long (12V/8A or 24V/10A). If fast charging is required, utility power is advised.



Product Parameters

Product Name	P5000PLUS
Product size	L550*W299*H487mm
Product weight	53KG
Battery Capacity	5120Wh
AC charge	120V/1800W,240V/3000W
PV input	12-60V/18A,1000W Max
AC output	120V/240V,3600W Max
USBQC3.0	(5-12V18W)x2
USB	(5V2.4A)x2
Type-C	5-20V/5.0A,100W Max with PD3.0 protocol *2
DC 5521	12V/3A x 2
RV(Aviation Port)	12V/10A
Car charger output	12V/10A
Charging temperature	0~40℃
Operating temperature	-10~40℃
Ambient humidity	<90%RH
Cycle charge	≥5000

Battery Specification

Type	Lithium iron phosphate
Single battery rated voltage	3.2V
Rated capacity of single battery	100Ah
Battery pack rated voltage	51.2V
Single cell weight	2KG
Rated capacity of battery pack	5120Wh

FAQ

1. The appliances power is within the rated output power range of the product but it cannot be used?

The power of the product is low and needs to be recharged.

When some electrical appliances are started, the peak power is higher than the product power, or the nominal power of the electrical appliance is greater than the product power;

2. Why is there a sound when using it?

The sound comes from the fan or the relay when you start or using the product.

3. Is it normal the charging cable heat up during use?

Yes, it is. The cable complies with national safety standards and has applied the certificates.

4. What kind of battery we use in this product?

The battery type is lithium iron phosphate.

5. What devices the product can support by the AC output?

AC output rated power is 3600W. The corresponding load product should be less than the rated output power of the product.

6. How can we know the remain using time?

Please check the data on the screen, it will show the remain using time when you turn on.

7. How can we confirm the product is recharging?

When the product is under charging, the product screen will show the input wattage, and the power percentage indicator will blink.

8. How should we clean the product?

Please use a dry, soft, clean cloth or tissue to wipe the product.

9. How to storage?

Please turn off the product and place it in a dry environment. Do not place this product near water.

For long-term storage, we recommend to use the product every three months(Run out the remain power first and recharge it to the percentage you want, such as 50%).

10. Can we take this product on airplane?

NO, you can't.

11. Is the actual output capacity of the product the same as the target capacity in the user manual?

The capacity of the user manual is the rated capacity of the battery pack of this product. Because this product has a certain efficiency loss during the charging and discharging process, the actual output capacity of the product is lower than the capacity specified in the user manual.

12. What is the maximum output power of a single AC interface?

Each interface of the product has a maximum output current marked, and the maximum output power of the interface can be calculated according to the local output voltage and maximum current. The load power cannot be greater than the maximum output power that a single interface can withstand. Failure to do so will result in damage to the product.

Maintenance

1. It is recommended to use or store this product in an environment of 20°C to 30°C, away from water, heat, and other metal objects.
2. For safety reasons, please do not store this product in an environment higher than 40°C or lower than -10°C for a long time.
3. If it is not used for a long time, please charge it to 60% before storing. If the battery is left unused for a long time when the battery is seriously insufficient, it will cause irreversible damage to the battery and shorten the cycle life of the product.

IMPORTANT SAFETY INSTRUCTIONS

WARNING – When using this product, basic precautions should always be followed, including the following:

- a) Read all the instructions before using the product.
- b) To reduce the risk of injury, close supervision is necessary when the product is used near children.
- c) Do not put fingers or hands into the product.
- d) Use of an attachment not recommended or sold by power pack manufacturer may result in a risk of fire, electric shock, or injury to persons.
- f) Do not use a battery pack or appliance that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.
- g) Do not operate the power pack with a damaged cord or plug, or a damaged output cable.
- h) Do not disassemble the power pack, take it to a qualified service person when service or repair is required. Incorrect reassembly may result in a risk of fire or electric shock.
- i) To reduce the risk of electric shock, unplug the power pack from the outlet before attempting any instructed servicing.

j) **WARNING – RISK OF EXPLOSIVE GASES.**

1) **WORKING IN VICINITY OF A LEAD ACID BATTERY IS DANGEROUS. BATTERIES GENERATE EXPLOSIVE GASES DURING NORMAL BATTERY OPERATION. FOR THIS REASON, IT IS OF THE UTMOST IMPORTANCE THAT YOU FOLLOW THE INSTRUCTIONS EACH TIME YOU USE THE POWER PACK.**

2) To reduce risk of battery explosion, follow these instructions and those published by battery manufacturer and manufacturer of any equipment you intend to use in vicinity of the battery. Review cautionary marking on these products and on engine.

k) **PERSONAL PRECAUTIONS**

- 1) Consider having someone close enough by to come to your aid when you work near a lead-acid battery.
- 2) Have plenty of fresh water and soap nearby in case battery acid contacts skin, clothing, or eyes.
- 3) Wear complete eye protection and clothing protection. Avoid touching eyes while working near battery.
- 4) If battery acid contacts skin or clothing, wash immediately with soap and water. If acid enters eye, immediately flood eye with running cold water for at least 10 minutes and get medical attention immediately.
- 5) **NEVER** smoke or allow a spark or flame in vicinity of battery or engine.

- 6) Be extra cautious to reduce risk of dropping a metal tool onto battery. It might spark or short-circuit battery or other electrical part that may cause explosion.
- 7) Remove personal metal items such as rings, bracelets, necklaces, and watches when working with a lead-acid battery. A lead-acid battery can produce a short-circuit current high enough to weld a ring or the like to metal, causing a severe burn.
- l) When charging the internal battery, work in a well ventilated area and do not restrict ventilation in any way.
- m) Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.
- n) Do not expose a power pack to fire or excessive temperature. Exposure to fire or temperature above 130°C may cause explosion. The temperature of 130°C can be replaced by the temperature of 265°F.
- o) Have servicing performed by a qualified repair person using only identical replacement parts. This will ensure that the safety of the product is maintained.
- p) Attach output cables to a battery and chassis as indicated below. Never allow the output clamps to touch one another.

SAVE THESE INSTRUCTIONS

FCC Caution:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC 's RF Exposure guidelines, This equipment should be installed and operated with minimum distance 20cm between the radiator and your body: Use only the supplied antenna.